Part 2 of your summer work….please don’t hate me! :

Ok, for starters, let’s not look at this part as ‘work’. Let’s look at it as investigating something important, that you are really curious about…..I call that intellectual curiosity….it is a fundamental quality of successful people, especially scientists. It is a part of their inherent nature. Its why many of them go into the sciences as a career, especially the environmental sciences….ok…on to what I want you to look into.

I am going to merge two labs from your lab manual…shorten each and merge them together to investigate climate change and our current summer storm season. Do not follow everything the lab asks you to do, unless you enjoy doing more work than you need to. Follow exactly what I instruct you to do, and use the lab manual as a guide and resource. This is not intended to be a major research project, just something to get you thinking about the issue….

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Prior to hurricane season…..right about now….Go to page 209**: Global Climate Change.**

1. Read and contemplate pg 209 through top of 210.
2. Ignore the graphic organizer on page 211 and ignore all the questions on page 212. ☺
3. I am going to assign you to look into two items from Step 1 of the procedure.
4. Extreme weather (can include heat waves, hurricanes, tornados, typhoons….)
5. Droughts and/or flooding
6. Do a little internet research. For each of the above, write no more than one and a half typed page (that’s three typed pages for both, max!)
7. Can you find any evidence showing a connection between climate change and that type of event? State your opinion and defend your opinion using evidence you discovered on your search. Be prepared to discuss this during our first days back. I may call on you, so be prepared. (Please make a list of the sites you visited on a separate paper. Note what type of site is it? Governmental? Educational? Private? Scientific?)
8. What are some recent concrete examples of each of the above events, either locally, nationally or globally. Describe several events, where they occurred (or are currently occurring) and their dates.
9. What are possible economic consequences of these types of events?
10. What may be social and /or political consequences of these types of events?
11. Be concise and clear with your thoughts….you are limited in space.

Last part, and this will be ongoing until hurricane season is OVER…:

Go to Page 6: **Hurricane Tracking and Prediction**

1. Read pg 6. Visit one or both of the sites on the page and print out one of the downloadable maps.
2. Start watching the news….CNN is great for following big storms.
3. As storms develop over the Gulf of Mexico during hurricane season:
4. Create a data table and while tracking the path of each storm record:
5. The name of the storm/hurricane
6. Your prediction of when it will hit land and where
7. The predicted strength (tropical storm and hurricane strength is measured in ‘categories’)
8. The actual date it hit land and where it actually hit
9. The actual highest category or strength it achieved
10. On your map, with colored pencils, draw in each hurricane’s path from first development to its landfall and write its’ name above the line.
11. Answer the following, on the back of your data table page:
12. What causes hurricanes to form and why are they usually in late summer and early autumn?
13. What has been the trend, or is there one, of hurricane strength over the last few decades?